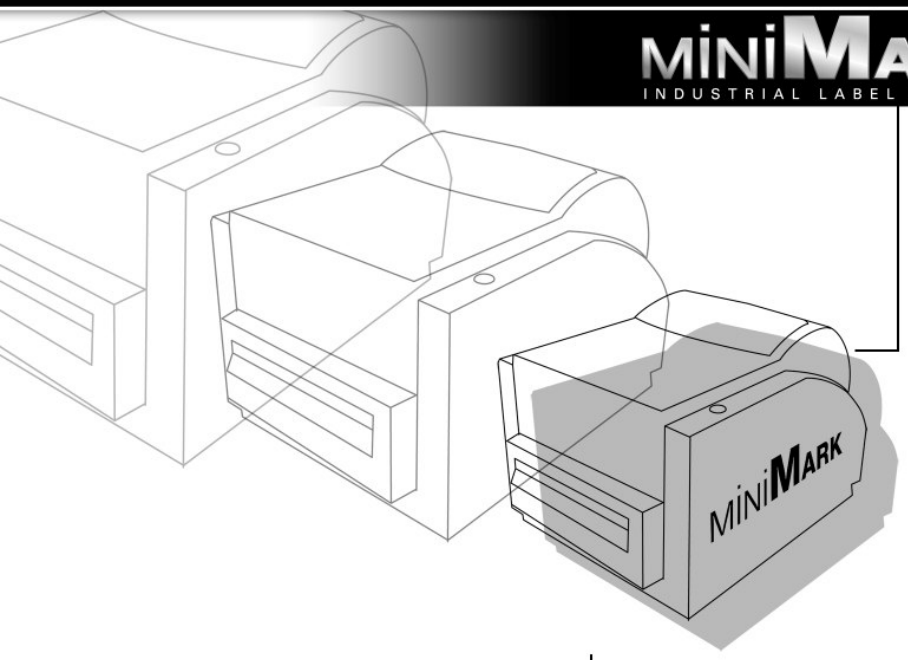
BRADY

MINIMARK™
INDUSTRIAL LABEL PRINTER



User's guide
Manuel d'utilisation
Benutzerhandbuch
Gebruikersgids
Guía del usuario
Manuale dell'utente

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www.bradyeurope.com
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NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This ISM device complies with Canadian ICES – 001

Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

English

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1. Checking Your Box

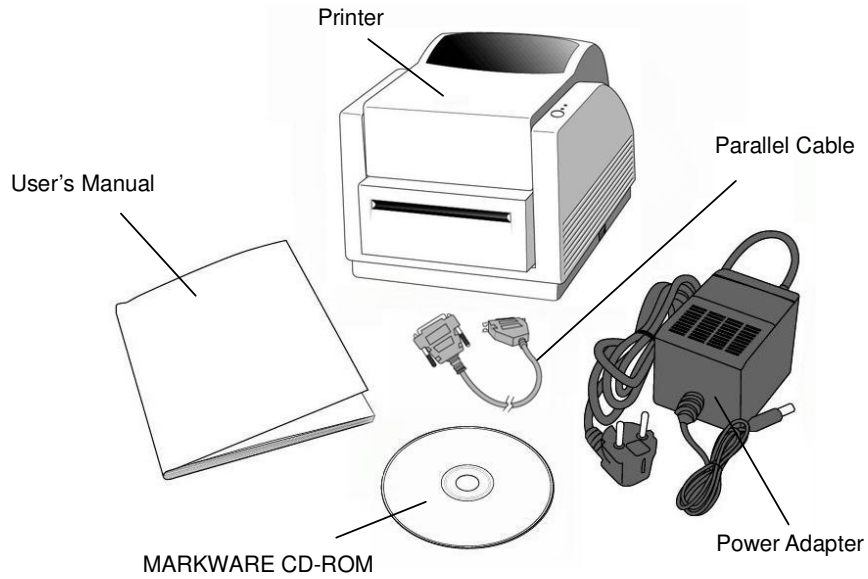
Receiving the box of your printer, you are advised to check first for the possible shipping damage. There are two ways you can do it:

1. Inspect the outer appearances of both the box and the printer for possible damage.

2. Raise the top cover of the printer to see if the media compartments are in order.

If damages did occur, immediately file the claim to the shipping company for settlement.

Having performed the primary inspections, next step, please check whether you have received the following accessories together with the printer. If there is any item missing, contact your local dealer to get it.



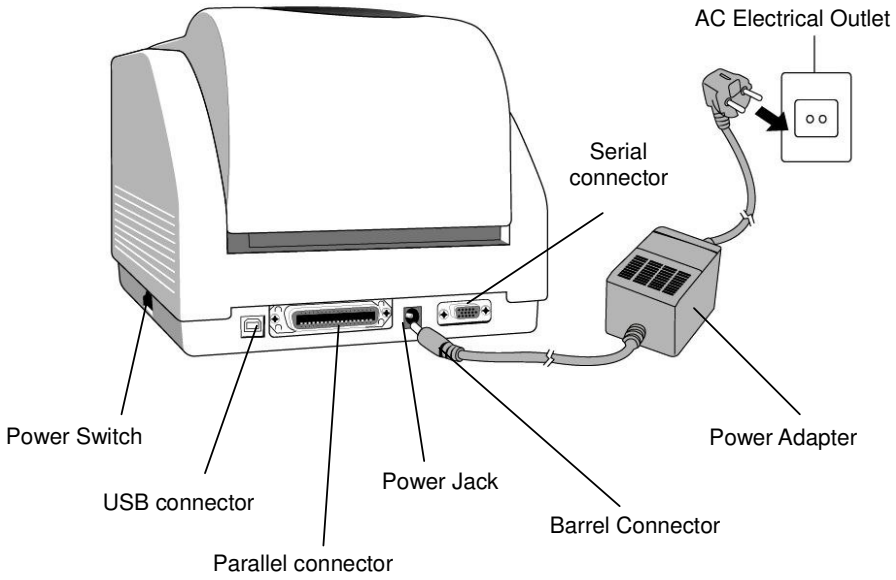
2. Power Supply

WARNING:
NEVER OPERATE THE PRINTER AND POWER SUPPLY IN AN AREA WHERE THEY CAN GET WET.

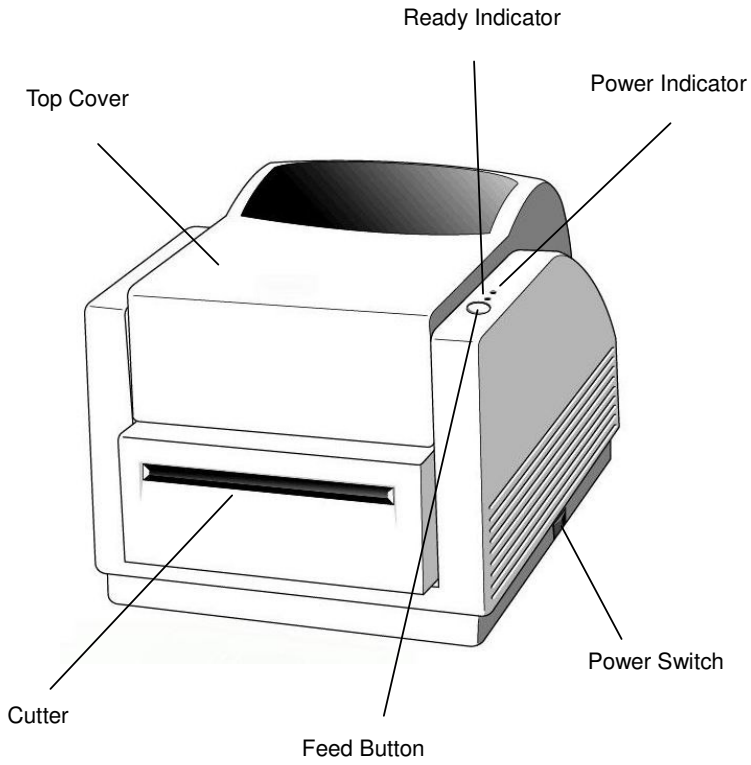
1. The Power Adapter has a barrel connector on one end that must be inserted into the power jack on the back of the printer.

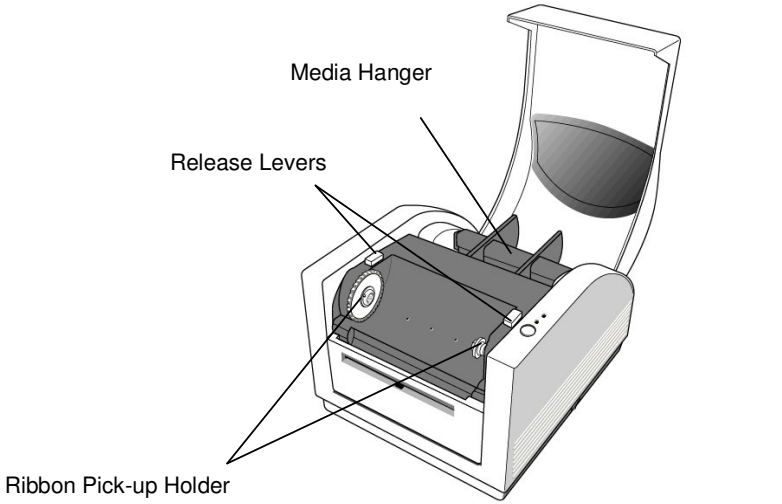
2. Plug the other end of the cord into an appropriate AC electrical outlet.

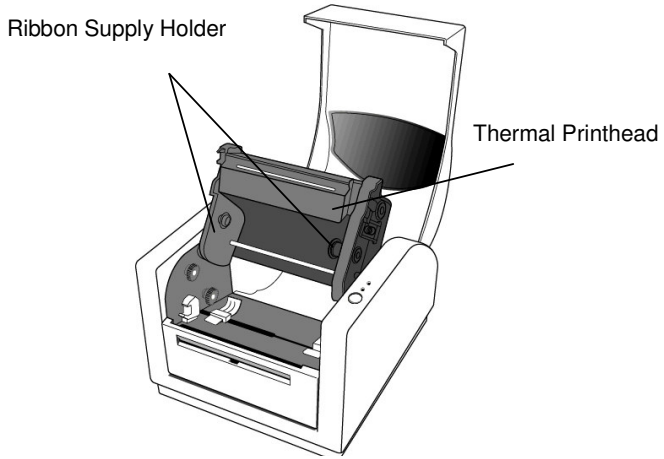
3. When plugging the connector into power jack, please leave the power switch at "O" position and don't touch the 36 pin parallel connector.



3. Parts and Features



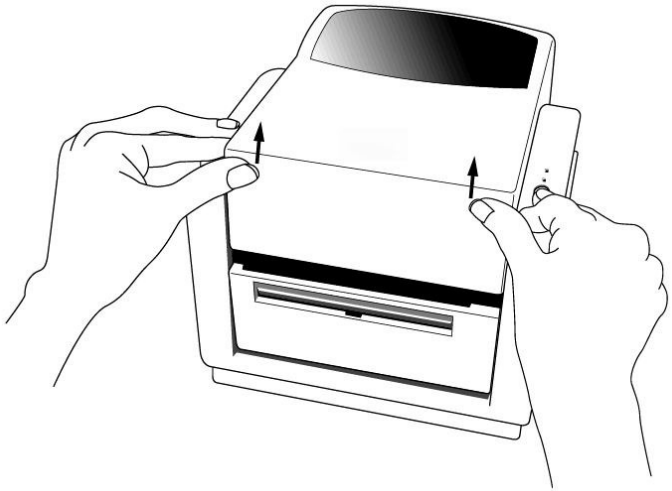




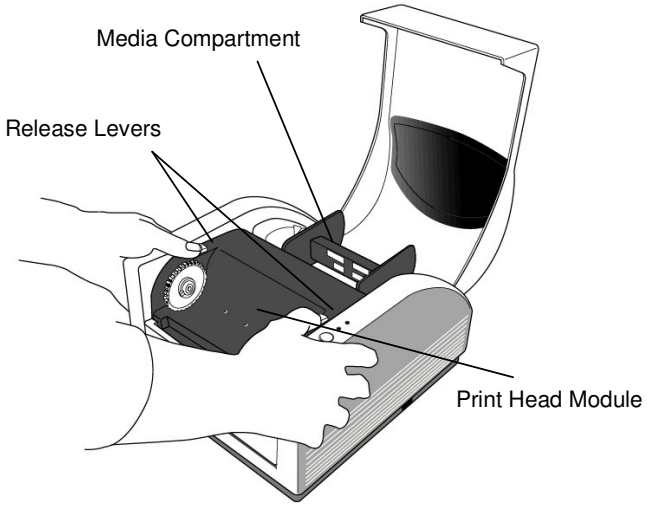
4. Loading the Ribbon

Note:
This section is not applicable to the direct thermal printing as a thermal ribbon is not required.

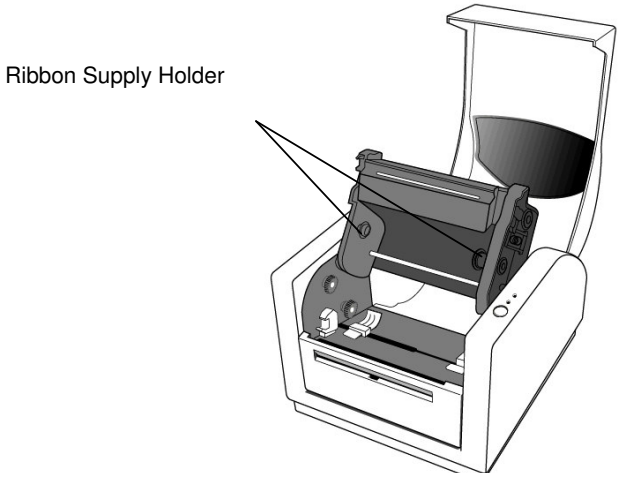
1. Lift the top cover to expose the media compartment.



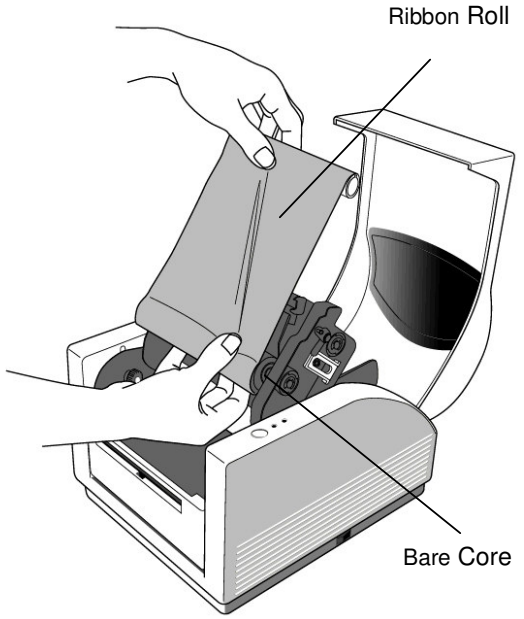
2. Unlatch the print head module by pushing the two purple release levers on the sides.



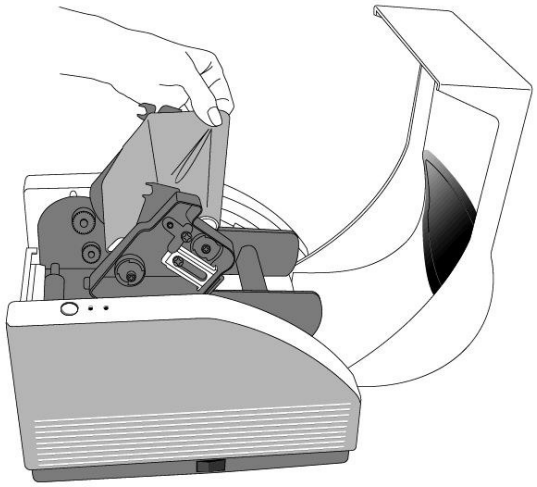
3. Turn over the print head module to expose the ribbon supply holder.



4. Unwrap the ribbon roll pack and separate the ribbon roll and the bare core.
5. Attach the edge of the ribbon on the bare core and wind it a little bit onto the core.
6. Insert the ribbon roll into the supply holder. (First snap in the right side and then the left side).

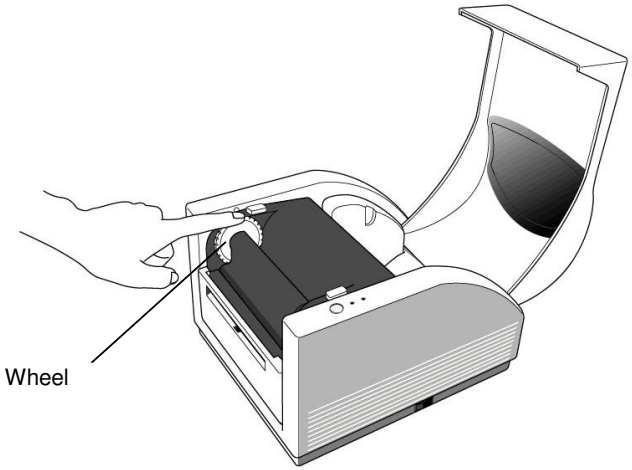


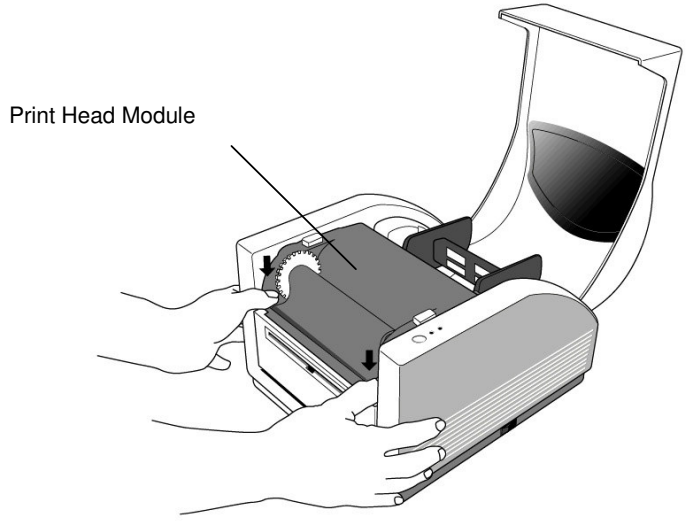
7. Turn back the print head module and then insert the bare core into the pick-up holder. (First snap in the right side, then the left side).



8. Turn the wheel of the print head module to ensure the ribbon is tightly wound.

9. Press down the print head module on both sides firmly till you hear a click on each side.





5. Loading the Media

The MINIMARK printer can be operated in two different options:
Cutter On / Cutter Off.

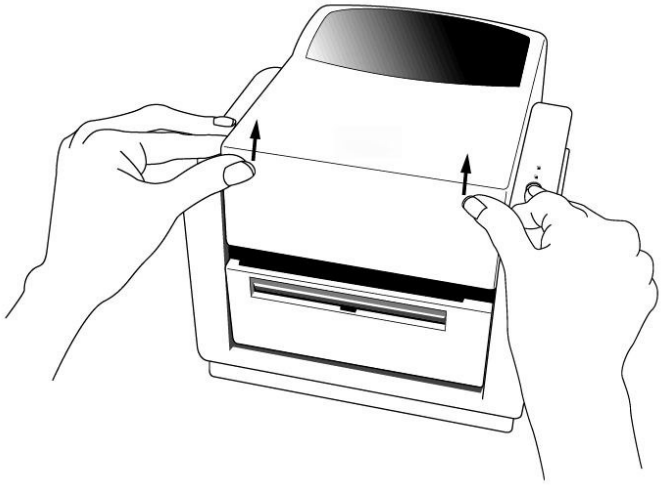
- In cutter On mode, the printer automatically cuts the label after it is printed (2 modes : cut between each label or cut at the end of print job).

- In cutter Off mode, the printer will not cut any label.

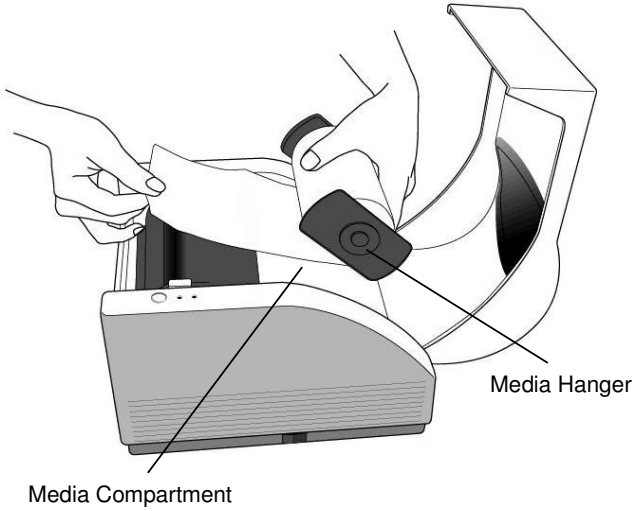
The Cutter On/Off modes are set in the Printer Setup in Markware.

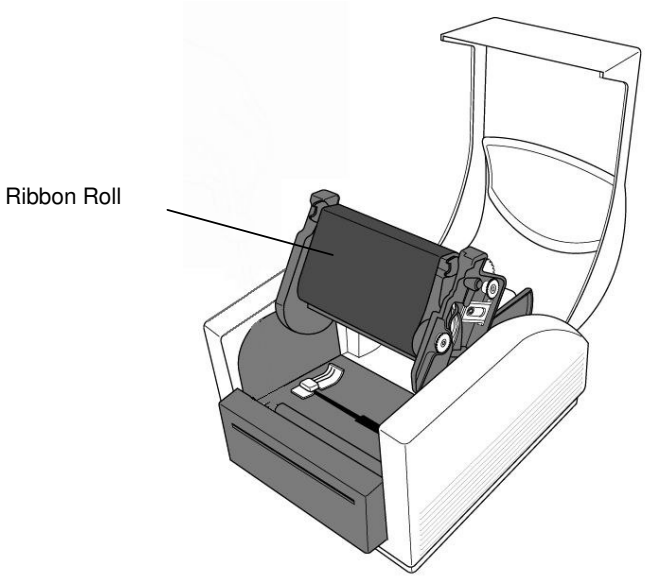
Loading the media (Continuous tape or Die-Cut labels)

1. Lift the top cover to expose the media compartment.

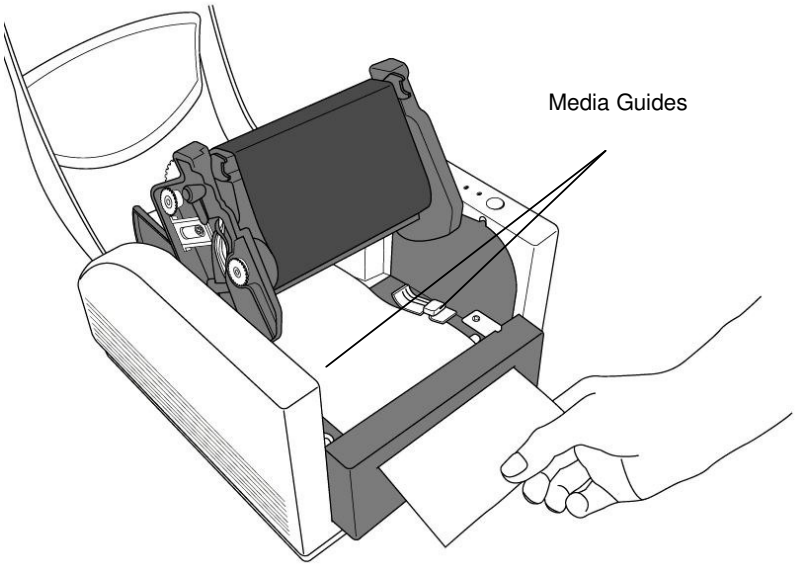


2. Remove the media hanger.
3. Load the media roll onto the hanger.
4. Unlatch the print head module.

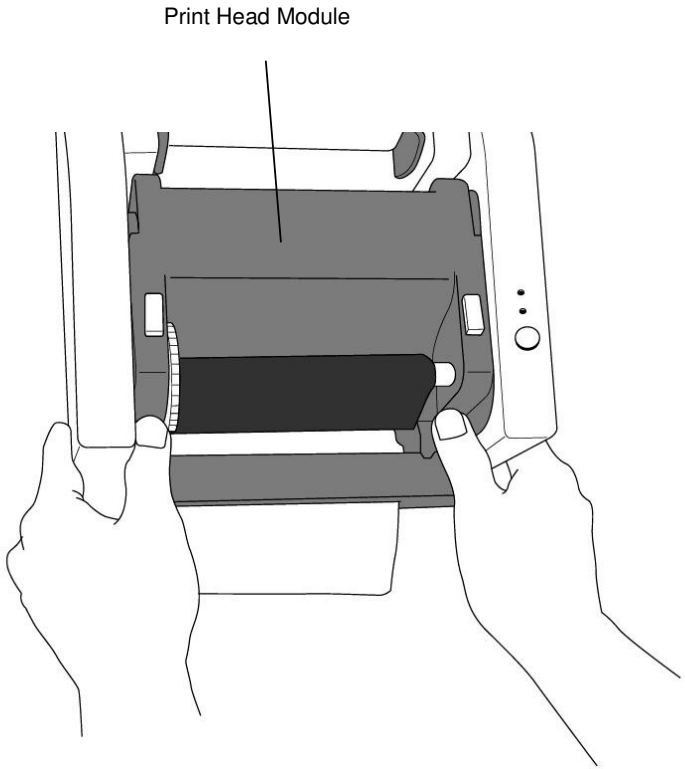




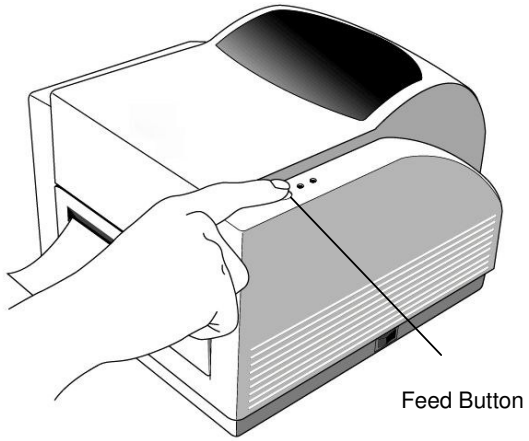
5. Lead the label through the media guides and the cutter (under the bent black plate) with the other hand. The media guide can be adjusted centrally to fit with different label width.



6. Press down the print head module firmly on both sides till you hear a click on each side.



7. Close the top cover and turn on the printer or press the feed button if the printer is already on.



Note:

The feed button will not drive the printer to cut. The cutting function can be executed only when the software setting is ready.

6. Operator Controls

Power Switch

Controls printer power

1. On : normal operation – "I" position
2. Off : the power should be turned off before connect or disconnect the communication cables and power cables – "O" position

Feed Button

Advance the label media to first printing position

1. Press to advance a small length of continuous tape or a label
2. Press to take the printer out of a "pause" condition

Ready Indicator

Show the printers status

1. Green : printer is ready to operate
2. Blinking : printer is paused

Power indicator

Shows the power and error status

1. Off : printer power off
2. Green : printer power on
3. Blinking : error occurs

7. Performing Calibration

1. Keep pressing the feed button while turning on the power, until the printing motor becomes activated.

2. The calibration has been performed while the printer automatically feed label for certain length.

8. Hooking up the Printer and Computer

Note :
The power supply barrel connector must be inserted into the power jack on the back of the printer before connecting the communication cables.

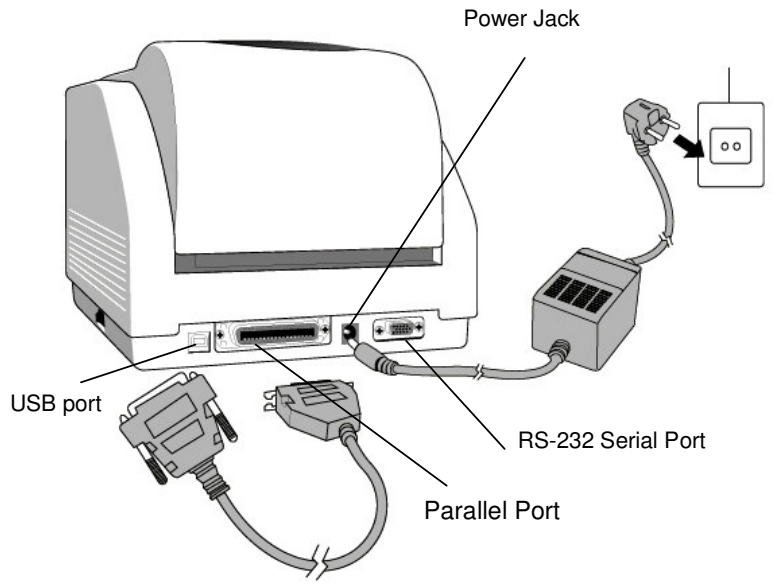
This printer comes with both a nine-pin Electronics Industries Association (EIA) RS-232 serial data interface, a standard Centronics parallel interface and USB interface. In either case, you must supply the required interface cable for your application.

Note :
This printer complies with FCC "Rules and Regulations" , Part 15, for Class A Equipment, using fully shielded six-foot data cables. Use of longer cables or unshielded cables may increase radiated emissions above the Class A limits.

Serial (RS-232) Interface Requirements

The required cable must have a nine-pin "D" type male connector on one end, which is plugged into the mating serial port located on the back of the printer. The other end of this signal interface cable connects to a serial port at the host computer.

The settings for the Serial port are :
Baud rate : 9600 – Stop Bit : 1 – Data Bit : 8 – Parity : None – Flow Control : Xon / Xoff



Parallel Interface Requirements

The required cable (IEEE 1284-compliant is recommended) must have a standard 36-pin parallel connector on one end, which is plugged into the parallel port located on the back of the printer. The other end of the parallel interface cable connects to the parallel connector on the host computer.

To minimize electrical noise pickup in the cable:
■Keep data cables as short as possible (6ft. [1.83m] recommended).
■Do not tightly bundle the data cables with power cords.
■Do not tie the data cables to power wire conduits.

Notes :
1. Using Centronics allows for a much higher speed communication than the use of a serial.

2. It is not necessary to set the switch or send any command to select the parallel or serial port . The printer can automatically detect it.

3. A normal USB cable is used if USB port is selected.

9. MINIMARK Print Driver

The MINIMARK print driver is bundled with the Markware 3.4 and higher CD-ROM (on a separate print driver CD-ROM from Markware 3.5 and higher). This driver can be installed under Windows 98SE/NT4/2000/XP.

Installing MarkWare 3.4 and Higher MINIMARK Print Driver

1. Install MarkWare if not previously installed.
2. Insert the **MarkWare 3.4 and higher MINIMARK CD** into your CD-ROM drive. You can also download the drivers from the Brady web site at **http://www.bradyeurope.com/minimark**.
(US and Canada) www.bradyid.com

Note: If the installation CD does not AutoRun, go to **Start** \ **Windows Explorer** and then select the drive (for example, **D:**) where the MW3.4 and higher CD is located.

3. The **Choose Setup Language** box displays. Select a language and click **OK**.

4. The **Choose Printer Port** screen displays. Click the communication port you want to be used from the list and click **Next**. The print driver will automatically install. If USB is desired, select USB001.

5. When the print driver installation is completed, a message displays asking you to restart your computer. Choose **Yes** or **No** to restart you computer later.

Set the Parameters

After installing the driver, you can follow the path below to set parameters:

Start → Settings → Printers → MINIMARK → Properties

The parameters include:

Ports Select the correct port to link with the printer. The port may be one of parallel (LPT), serial (COM), USB001 or File.

Paper size Select the proper size in the menu.

Orientation Set portrait or landscape according to the print direction.

10. Troubleshooting

Normally, when the printer is in abnormal condition, the power LED will keep blinking. The printing job and the communication between the host and printer will stop.

To understand the problem, please check both LEDs first:

A. Power and Ready LEDs blink at the same tempo

Power LED	Ready LED
ON	ON
OFF	OFF

Possible Problems	Solutions	Remarks
Miss-detect the gap (Die-cut label)	. Check the label path . Check the label sensor	If you are using continuous label roll and run under Windows, you should select the continuous media.

Possible Problems	Solutions	Remarks
Label out	. Supply the label roll out	
Label not installed	. Install the label roll	
Label jam	. Recover the jam	

B. Power and Ready LEDs blink alternately

Power LED	Ready LED
ON	OFF
OFF	ON

Possible Problems	Solutions	Remarks
Ribbon out	. Supply the ribbon roll	Not applicable to direct thermal type.
Ribbon jam	. Recover the jam	
Ribbon sensor error	. Replace the ribbon sensor	

C. Only the Power LED blinks

Power LED	Ready LED
ON	ON
OFF	ON

Possible Problems	Solutions	Remarks
Serial error	. Check the baud rate	Not for Centronics
Memory full	. Add the extension RAM	
Cutter failed, or jam at cutter	. Check the cutter . Recover the jam	It occurs when cutter is activated but connection cable is disconnected
Hardware error	. Call for service	

D. Miscellaneous

■ The host shows "Printer Time out"
1. Check if the communication cable(parallel, serial or USB) is connected securely to your parallel, serial or USB port on the PC and to the connector on the printer at the other end.
2. Check if the printer power is turned on.

■ If the power cord is connected, the power switch is at position "I" and the power LED has still not illuminated, check the fuse inside the power adapter case.

■ The data has been sent, but there is no output from the printer. Check the active printer driver, if MINIMARK printer has been selected.

■ Vertical streaks in the printout usually indicate a dirty or faulty print head.
Clean the print head first, if they still persist, replace the print head.

■ Poor printout quality.
. The ribbon may not be qualified.
. The media may not be qualified.
. Adjust the Darkness (heat temperature).
. Slow down the print speed.
. Refer to the next chapter and clean the related spare parts.

Recovery

To continue your print jobs after the abnormal conditions have been corrected, simply press the panel button or restart the printer. Make sure that the LED is not blinking and remember to resend your files.

11. Caring for Your Printer

Clean the following areas of the printer after 5-8 rolls of continuous tapes or die-cut labels have been used. In each case, use a cotton bud dampened with isopropyl alcohol. Do not soak the cotton bud excessively.

Cleaning

■ Thermal Print Head

Thermal paper and ribbon will release debris on the print head and degrade printing quality. Clean the print head with isopropyl alcohol with a cotton bud. Do not touch the heater element with your fingers. Debris or dirt on the roller should be cleaned with alcohol.

■ Paper Sensor

Debris or dirt on the paper sensor will cause a miss-read or unstable detection of the label gap. Clean with a cotton bud dampened with alcohol.

Note :
Always switch off the power before cleaning.

12. Reference Technical Information

Specifications	**MINIMARK**
Printing method	Thermal Transfer
Printing resolution	203 dpi (8dots/mm)
Printing speed	1 ~ 4 ips (51~ 102 mm/s) 4" is automatically reduced to 3" if cutter On
Printing length	1” ~ 45” (25mm ~ 1143mm)
Printing width	Max 4.1” (104 mm)
Memory	2 MB DRAM 2 MB Flash ROM
CPU type	32 bit RISC microprocessor
Media sensor	Reflective See - through
Display	LED indicators x 2
Operation interface	Button x 1
Communication interface	Centronics RS-232 serial Bi-USB (Full Speed)
Software	MARKWARE, version 3.4 and higher
Media	Continuous tapes die-cut labels; Thermal paper or Vinyl / Polyester Max width 4.25” (108 mm) Min width 1.0” (25.4 mm) Thickness .0025”~. 01” (.0635mm ~. 254mm)
Ribbon	Wax, Wax/Resin, Resin (Outside coating ribbon) Ribbon width –4” Ribbon length – max 100 M
Power source	110/220 VAC ± 10%, 50/60 Hz, external power adapter
Agency listing	CE, UL, CUL, FCC class A, CCC
Operation environment	40ºF ~ 100ºF (4ºC~38ºC) ; 10~90% non condensing
Cutter	Rotary Cutter